

**TRANSMITTAL LETTER TO THE UNITED STATES  
DESIGNATED/ELECTED OFFICE (DO/EO/US)  
CONCERNING A FILING UNDER 35 U.S.C. 371**

1752-0143P

U.S. APPLICATION NO. (If known, see 37 CFR 1.5)

**09/787793**

INTERNATIONAL APPLICATION NO.

PCT/JP99/05226

INTERNATIONAL FILING DATE

September 24, 1999

PRIORITY DATE CLAIMED

September 25, 1998

**TITLE OF INVENTION**

DENITRIFYING COMPOSITION FOR REMOVING NITRATE NITROGEN AND PROCESS FOR PRODUCING THE SAME

**APPLICANT(S) FOR DO/EO/US**

Atsushi YATAGAI, Hiroshi MASUJIMA, Takuma YABE, Tomomichi GUNJI and Toru OISHI

Applicant herewith submits to the United States Designated/Elected Office (DO/EO/US) the following items and other information:

1. ☒ This is a **FIRST** submission of items concerning a filing under 35 U.S.C. 371.
2. ☐ This is a **SECOND** or **SUBSEQUENT** submission of items concerning a filing under 35 U.S.C. 371.
3. ☒ This express request to begin national examination procedures (35 U.S.C. 371(f)) at any time rather than delay examination until the expiration of the applicable time limit set in 35 U.S.C. 371(b) and PCT Articles 22 and 39 (1).
4. ☐ The US has been elected by the expiration of 19 months from the priority date (Article 31).
5. ☒ A copy of the International Application as filed (35 U.S.C. 371(c)(2))
  - a. ☐ is transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☒ has been transmitted by the International Bureau.
  - c. ☐ is not required, as the application was filed in the United States Receiving Office (RO/US).
6. ☒ An English language translation of the International Application as filed (35 U.S.C. 371(c)(2)).
  - a. ☒ is transmitted herewith.
  - b. ☐ has been previously submitted under 35 U.S.C. 154(d)(4)
7. ☒ Amendments to the claims of the International Application under PCT Article 19 (35 U.S.C. 371(c)(3)).
  - a. ☐ are transmitted herewith (required only if not transmitted by the International Bureau).
  - b. ☐ have been transmitted by the International Bureau.
  - c. ☐ have not been made; however, the time limit for making such amendments has NOT expired.
  - d. ☒ have not been made and will not be made.
8. ☐ An English language translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).
9. ☐ An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).
10. ☐ An English language translation of the annexes of the International Preliminary Examination Report under PCT Article 36 (35 U.S.C. 371(c)(5)).

Items 11. to 20. below concern document(s) or information included:

11. ☒ An Information Disclosure Statement under 37 CFR 1.97 and 1.98./International Search Report with cited references
12. ☐ An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.
13. ☒ A **FIRST** preliminary amendment.
14. ☐ A **SECOND** or **SUBSEQUENT** preliminary amendment.
15. ☐ A substitute specification.
16. ☐ A change of power of attorney and/or address letter.
17. ☐ A computer-readable form of the sequence listing in accordance with PCT Rule 13ter.2 and 35 U.S.C. 1.821-1.825.
18. ☐ A second copy of the published international application under 35 U.S.C. 154(d)(4).
19. ☐ A second copy of the English language translation of the international application under 35 U.S.C. 154(d)(4).
20. ☒ Other items or information:
  1. Three (3) sheets of drawings
  2. International Preliminary Examination Report (PCT/IPEA/409)
  3. Verification of Translation

U.S. APPLICATION NO. (known) 09/787793 INTERNATIONAL APPLICATION NO. PCT/JP99/05226		ATTORNEY'S DOCKET NUMBER 1752-0143P																									
21. <input checked="" type="checkbox"/> The following fees are submitted: <b>BASIC NATIONAL FEE (37 CFR 1.492(a)(1)-(5):</b> Neither international preliminary examination fee (37 CFR 1.482) nor international search fee (37 CFR 1.445(a)(2)) paid to USPTO and International Search Report not prepared by the EPO or JPO. .... \$1,000.00  International preliminary examination fee (37 CFR 1.482) not paid to USPTO but International Search Report prepared by the EPO or JPO. .... \$860.00  International preliminary examination fee (37 CFR 1.482) not paid to USPTO but international search fee (37 CFR 1.445(a)(2)) paid to USPTO. .... \$710.00  International preliminary examination fee (37 CFR 1.482) paid to USPTO but all claims did not satisfy provisions of PCT Article 33(1)-(4) ..... \$690.00  International preliminary examination fee (37 CFR 1.482) paid to USPTO and all claims satisfied provisions of PCT Article 33(1)-(4) ..... \$100.00 <b>ENTER APPROPRIATE BASIC FEE AMOUNT =</b>		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:50%;">CALCULATIONS</th> <th style="width:50%;">PTO USE ONLY</th> </tr> <tr> <td colspan="2" style="height: 150px;"></td> </tr> <tr> <td style="text-align: right;">\$ 860.00</td> <td></td> </tr> <tr> <td style="text-align: right;">\$ 130.00</td> <td></td> </tr> <tr> <td colspan="2" style="text-align: right;"><b>TOTAL OF ABOVE CALCULATIONS = \$ 1260.00</b></td> </tr> <tr> <td colspan="2" style="text-align: right;"><b>SUBTOTAL = \$ 1260.00</b></td> </tr> <tr> <td colspan="2" style="text-align: right;"><b>TOTAL NATIONAL FEE = \$ 1260.00</b></td> </tr> <tr> <td colspan="2" style="text-align: right;"><b>TOTAL FEES ENCLOSED = \$ 1260.00</b></td> </tr> <tr> <td colspan="2" style="text-align: right;">Amount to be: refunded \$</td> </tr> <tr> <td colspan="2" style="text-align: right;">charged \$</td> </tr> </table>		CALCULATIONS	PTO USE ONLY			\$ 860.00		\$ 130.00		<b>TOTAL OF ABOVE CALCULATIONS = \$ 1260.00</b>		<b>SUBTOTAL = \$ 1260.00</b>		<b>TOTAL NATIONAL FEE = \$ 1260.00</b>		<b>TOTAL FEES ENCLOSED = \$ 1260.00</b>		Amount to be: refunded \$		charged \$					
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Surcharge of \$130.00 for furnishing the oath or declaration later than <input type="checkbox"/> 20 <input checked="" type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(e)).		<table border="1" style="width:100%; border-collapse: collapse;"> <tr> <th style="width:20%;">CLAIMS</th> <th style="width:20%;">NUMBER FILED</th> <th style="width:20%;">NUMBER EXTRA</th> <th style="width:20%;">RATE</th> <th style="width:20%;"></th> <th style="width:20%;"></th> </tr> <tr> <td>Total Claims</td> <td>18 - 20 =</td> <td>0</td> <td>X \$18.00</td> <td>\$</td> <td></td> </tr> <tr> <td>Independent Claims</td> <td>2 - 3 =</td> <td>0</td> <td>X \$80.00</td> <td>\$</td> <td></td> </tr> <tr> <td colspan="4">MULTIPLE DEPENDENT CLAIM(S) (if applicable) yes + \$270.00</td> <td>\$</td> <td>270.00</td> </tr> </table>		CLAIMS	NUMBER FILED	NUMBER EXTRA	RATE			Total Claims	18 - 20 =	0	X \$18.00	\$		Independent Claims	2 - 3 =	0	X \$80.00	\$		MULTIPLE DEPENDENT CLAIM(S) (if applicable) yes + \$270.00				\$	270.00
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<input type="checkbox"/> Applicant claims small entity status. See 37 CFR 1.27. The fees indicated above are reduced by 1/2.		Processing fee of \$130.00 for furnishing the English translation later than <input type="checkbox"/> 20 <input type="checkbox"/> 30 months from the earliest claimed priority date (37 CFR 1.492(f)).																									
Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +		Fee for recording the enclosed assignment (37 CFR 1.21(h)). The assignment must be accompanied by an appropriate cover sheet (37 CFR 3.28, 3.31). \$40.00 per property +																									
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a. <input checked="" type="checkbox"/> A check in the amount of \$ <u>1260.00</u> to cover the above fees is enclosed.		b. <input type="checkbox"/> Please charge my Deposit Account. No. _____ in the amount of \$ _____ to cover the above fees. A duplicate copy of this sheet is enclosed.																									
c. <input checked="" type="checkbox"/> The Commissioner is hereby authorized to charge any additional fees which may be required, or credit any overpayment to Deposit Account No. <u>02-2448</u> .		NOTE: Where an appropriate time limit under 37 CFR 1.494 or 1.495 has not been met, a petition to revive (37 CFR 1.137(a) or (b)) must be filed and granted to restore the application to pending status.																									
Send all correspondence to: <b>Birch, Stewart, Kolasch &amp; Birch, LLP</b> or Customer No. 2292 P.O. Box 747 Falls Church, VA 22040-0747 (703)205-8000																											
Date: <u>March 23, 2001</u>		By <u>Gerard M. Murphy, Jr.</u> # <u>36,623</u> Gerard M. Murphy, Jr., #28,977																									

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re International Application of

Atsushi YATAGAI et al.

International Serial No. : PCT/JP99/05226

International filing date : September 24, 1999

For : Denitrifying Composition for Removing Nitrate Nitrogen and  
Process for Producing the SameVERIFICATION OF TRANSLATION

Honorable Commissioner of Patents and Trademarks

Washington, D.C. 20231

Sir :

I, Nobuyoshi TAKAHASHI, residing at 504-52, Shimoyamaguchi,  
Hayama-machi, Miura-gun, Kanagawa-ken, Japan, declare and state :

- (1) that I know well both the Japanese and English languages;
- (2) that I translated the above-identified International Application from Japanese to English;
- (3) that the attached English translation is a true and correct translation of the above-identified International Application to the best of my knowledge and belief; and
- (4) that all statements made of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements are made with the knowledge that willful false statements and the like are punishable by fine or imprisonment, or both, under 18 USC 1001, and that such false statements may jeopardize the validity of the application or any patent issuing thereon.

Date : February 13, 2001

Nobuyoshi Takahashi  
Signature: Nobuyoshi TAKAHASHI